NEWZEN CONSULTANT Bangalore

NC/PMC/PD/MW-13/2019-20/LB-C1 Date: 24-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13, Mallasandra Project Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	265min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.03 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.16mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.35 N/Sq mm	Shall not be less than 27 N/Sqmm

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

For Newzen Consultants Bangalore
Proprietor

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NC/PMC/PD/MW-13/2019-20/LB-PCC1 Date: 24-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13, Mallasandra Project Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	97.35	85-100	95 – 100
20mm	63.10	0 -20	30- 70
10mm	23.85	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	98.60	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.45	60-95	75-100	85-100	
01.18	63.75	30-70	55-90	75-100	
600. mic	46.15	15-34	35-59	60-79	
300.mic	24.90	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

Asst. Executive Engineer
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BBMP, Bangalore

For Newzen Consultants Bangalore
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NC/PMC/PD/MW-13/2019-20/LB-C2

Date: 30-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13,
Mallasandra Project Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**285min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.63 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2019-20/LB-FA1 Date: 30-04-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13, Mallasandra Project Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.10**	60-95	75-100	85-100	
01.18	**75.25**	30-70	55-90	75-100	
600. mic	**44.15**	15.34	35-59	60-79	
300.mic	**24.90**	5-20	8-30	12-40	
150.mic	**6.75**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.45 %**	-----
2	Silt Content	----	**0.59 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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Date: 03-05-2019

1.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13, Mallasandra Project Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	1355.00 Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.42 %**	Not more than 2.0 %

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NC/PMC/PD/MW-13/2019-20/LB-CB3A

Date: 10-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength)
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13, Mallasandra Project Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-05-19	10-06-19	28	22500	645	28.67	27.85
	002	"	"	"	"	615	27.33	
	003	"	"	"	"	620	27.56	

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NC/PMC/PD/MW-13/2019-20/LB-CB4A

Date: 14-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength)
{Project*: Construction of Library in Mallasandra Sy. No 33 in Ward no.13, Mallasandra Project Sub Division.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Narahari. D, Benaka Developers & Projects Pvt Ltd.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-05-19	14-06-19	28	22500	515	22.89	22.81
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	520	23.11	

Asst. Executive Engineer

For Newzen Consultants Bangalore

Proprietor

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